

**IN THE CLAIMS**

The following claims listing replaces all prior claims listings:

1. (Currently Amended) A sensor device for measuring changes in a detecting portion upon coupling with a target, the sensor device comprising:  
a sensing portion including one of an oscillating circuit and a frequency measuring device or a surface plasmon resonance circuit; and  
a detecting portion having a plurality of binding sites, each binding site permitting one type of a plurality of different types of targets to selectively couple therewith,  
wherein,  
the sensing portion sensor device extracts plural pieces of information including information about at least the presence, absence, or distribution of the target via coupling of the target with the detecting portion which is effective to determine if a steric hindrance exists, and  
the sensing portion extracts said information by measuring changes in the weight of the detecting portion upon coupling with the targets.
2. (Canceled).
3. (Previously Presented) The sensor device according to claim 1 wherein the detecting portion includes a plurality of binding sites.
4. (Canceled).
5. (Previously Presented) The sensor device according to claim 1 wherein the binding sites couple with the targets to detect changes in amount of the targets with time.
6. (Original) The sensor device according to claim 1 wherein said information is extracted by measuring changes in physical nature or structure of the detecting portion upon coupling with the targets.

7. (Original) The sensor device according to claim 1 wherein said information is extracted by measuring changes in dielectric constant of the detecting portion upon coupling with the targets.

8. (Cancelled)

9. (Cancelled)

10. (Cancelled)

11. (Previously Presented) The sensor device according to claim 3 wherein the targets are antigens and binding sites are antibodies, and the antigens and the antibodies couple by antigen/antibody reaction.

12. (Currently Amended) A sensing method for measuring changes in ~~nature of a detecting portion upon coupling with a target~~ upon coupling with a detecting portion, comprising:

selectively coupling the target to one of a plurality of binding sites on the detecting portion; ~~and~~

extracting information including information about at least the presence, absence, or distribution of the target via coupling of the target with the detecting portion using a sensing portion which includes one of an oscillating circuit and a frequency measuring device or a surface plasmon resonance; and

determining if a steric hindrance exists,

wherein,

the sensing portion extracts said information by measuring changes in the weight of the detecting portion upon coupling with the targets.

13. (Currently Amended) A biological substance sensor device for measuring changes ~~in nature of a detecting portion upon coupling~~ a biological substance upon coupling with a detecting portion, the biological substance sensor device comprising:

a sensing portion including one of an oscillating circuit and a frequency measuring device or a surface plasmon resonance; and

a detecting portion,

wherein,

\_\_\_\_\_the biological substance sensor device simultaneously extracts plural pieces of information including information about the, presence, absence, or distribution of the biological substance via selective coupling of the substance with the detecting portion which is effective to determine if a steric hindrance exists, and

the sensing portion extracts said information by measuring changes in the weight of the detecting portion upon coupling with the targets.

14. (Currently Amended) A biological substance sensing method for measuring changes in ~~nature of a detecting portion upon coupling~~ a biological substance upon coupling with a detecting portion, comprising:

providing the biological substance for coupling with the detecting portion; ~~and~~

simultaneously extracting plural pieces of information including information about at least the presence, absence, or distribution of the biological substance via selective coupling of the substance with the detecting portion using a sensing portion which includes one of an oscillating circuit and a frequency measuring device or a surface plasmon resonance, and

determining if a steric hindrance exists,

wherein,

the sensing portion extracts said information by measuring changes in the weight of the detecting portion upon coupling with the targets.

15. (Currently Amended) A secretion sensor device for measuring changes in ~~nature of a detecting portion upon coupling with a secretion product~~ upon coupling with a detecting portion, the secretion sensor device comprising:

a sensing portion including one of an oscillating circuit and a frequency measuring device or a surface plasmon resonance

a detecting portion,

wherein,

\_\_\_\_\_ the ~~sensor device~~ sensing portion extracts plural pieces of information including information about the presence, absence, or distribution of the secretion product via selective coupling of the product with the detecting portion which is effective to determine if a steric hindrance exists,

\_\_\_\_\_ wherein,

\_\_\_\_\_ the sensing portion extracts said information by measuring changes in the weight of the detecting portion upon coupling with the targets.

16. (Currently Amended) A secretion sensing method for measuring changes in ~~nature~~ of a ~~detecting portion upon coupling with~~ a secretion product upon coupling with a detecting portion, comprising:

providing the secretion product for coupling with the detecting portion; and

simultaneously extracting plural pieces of information including information about at least the presence, absence, or distribution of the secretion product via selective coupling of the secretion product with the detecting portion using a sensing portion which includes one of an oscillating circuit and a frequency measuring device or a surface plasmon resonance, and

\_\_\_\_\_ determining if a steric hindrance exists,

\_\_\_\_\_ wherein,

\_\_\_\_\_ said information is extracted by measuring changes in the weight of the detecting portion upon coupling with the targets.

17-18. (Cancelled)